

CORRECTIVE ACTION PLAN FOR MONITORED NATURAL ATTENUATION

UST Permit Name:	Pantry #917	UST Permit #:	10815
Date Release Reported:	2/6/2014	Project Manager:	Ed Mendenhall
Priority Class:	3BF	County:	Beaufort

Date of Last Sampling: 1/30/2017 Contractor: ATC Group Services

Date of Assessment Activities Completed: 1/30/2017

of Sampling Events Completed: 4

Groundwater Velocity (ft/yr): 4.53 Groundwater Flow Direction: Northeast

Depth to Groundwater: 5.4 feet Soil Lithology: Sand

Distance to the Nearest Receptor? 200 feet

Type of Receptor? Property Line

Is the CoC Plume Defined (Yes/No)? yes

Is the CoC Plume Stable (Yes/No)? yes

Additional Comments:

Groundwater to be sampled for 12-24 months to ensure MNA process is occurring.

The following items are attached: Table with current CoC concentrations, Table with SSTLs, and Site Map.

Project Manager: Jeffrey E. Mendenhall

Date: 3/1/17

UST Facility Name: Pantry #917
 UST Permit #: 10815

Table of CoC Concentrations in Groundwater at time of ICAP Development

CoC concentrations in parts per billion ($\mu\text{g/l}$) based on (date) sampling:

Well	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	MtBE	1,2 DCA	TAA	TBA	TAME	DIPE	EtBE	Ethanol
MW-1 (R1)	1.3	0.76	1.4	2.3	12	3.3	<1	63	110	2.6	<1	6.4	<100
MW-2 (R1)	<1	<1	<1	<1	<1	<1	<1	<20	<20	<10	<1	<1	<100
MW-3 (R1)	<1	<1	<1	<1	<1	<1	<1	<20	<20	<10	<1	<1	<100
PW-7 (R1)	<1	<1	<1	<1	<1	5.3	<1	59	400	<10	<1	12	<100
MW-1 (R3)	<1	<1	<1	<1	<1	<1	<1	<20	<20	<10	<1	<1	<100
MW-2 (R3)	<1	<1	<1	<1	<1	0.88	<1	<20	<20	<10	<1	<1	<100
MW-3 (R3)	21		38	6.8	84	1.4	<1	18	39	1.0	<1	1.9	<100
MW-4 (R3)	<1	<1	<1	<1	<1	<1	<1	<20	<20	<10	<1	<1	<100
MW-5 (R3)	36	4.2	110	16	1100	8	<5	65	130	2.0	<5	19	<500
MW-6 (R3)	<1	<1	<1	<1	<1	0.77	<1	<20	<20	<10	<1	<1	<100
MW-7 (R3)	<1	<1	<1	<1	<1	<1	<1	<20	<20	<10	<1	<1	<100
MW-8 (R3)	<1	<1	<1	<1	<1	<1	<1	<20	<20	<10	<1	<1	<100
MW-9 (R3)	<1	<1	<1	<1	<1	<1	<1	<20	<20	<10	<1	<1	<100
MW-10D (R3)	<1	<1	<1	<1	<1	3.3	<1	<20	8.4	<10	<1	<1	<100

NOTE: CoC concentrations may vary due to seasonal fluctuations in the groundwater

Table of SSTLs

Site-specific target levels (SSTLs) in parts per billion ($\mu\text{g/l}$):

Well	Benzene	Toluene	Ethylbenzene	Xylene	Napthalene	MtBE	1,2 DCA	TAA	TBA	TAME	DIPE	EtBE	Ethanol
MW-1 (R1)													
MW-2 (R1)													
MW-3 (R1)													
PW-7 (R1)													
MW-1 (R3)													
MW-2 (R3)													
MW-3 (R3)	247				1239								
MW-4 (R3)													
MW-5 (R3)	174				871								
MW-6 (R3)													
MW-7 (R3)													
MW-8 (R3)													
MW-9 (R3)													
MW-10D (R3)													

* SSTLs set equal to effective solubility for gasoline from reported literature values and statistical analysis
 of UST Management Division CoC data.

